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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Laval Chan Chun KONG et al.

Group Art Unit 1624

Serial No.: 10/730,272

Examiner: unknown

Filed: December 9, 2003

For: COMPOUNDS AND METHODS FOR THE TREATMENT OR PREVENTION OF  
FLAVIVIRUS INFECTIONS

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

**Timing and Fees**

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
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  - ☐ within three months of the actual filing date of the national phase of a PCT application; OR
  - ☒ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
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is accompanied by:

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Statements Under 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was a first cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

Cited Materials

- ☐ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. \_\_\_\_\_, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☐ Copies of materials listed were cited in an international search report dated \_\_\_\_\_.
- ☒ Copies of the materials listed are attached (except for the foregoing).

### Non-English Language References

- ☐ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).
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- X = document of particular relevance when it is taken alone  
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A = document defining the general state of the art  
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### Other Information

#### Payment of Fees Due (If Any):

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Respectfully submitted,

  
\_\_\_\_\_  
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Attorney Docket No. VIRO-0005

Date: June 22, 2005



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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 3

### Complete if Known

Application Number	10/730,272
Filing Date	December 9, 2003
First Named Inventor	Laval Chan Chun KONG
Group Art Unit	1624
Examiner Name	Unassigned
Attorney Docket Number	Viro-0005

### U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
		4,180,662		Pfister et al.	12/25/1979	
		6,187,799		Wood et al.	02/13/2001	
		6,747,057		Ruzafa et al.	6/2004	
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		6,414,013		Fancelli et al.	7/2002	
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### FOREIGN PATENT DOCUMENTS

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
		WO	98/52558			11-26-1998		
		WO	02/28353			04-11-2002		
		JP	7-48360			02-21-1995		
		DE	199 20 247A			11-16-2000		
		DE	199 03 398A			08-10-2000		

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First Named Inventor	Laval Chan Chun KONG
Group Art Unit	1624
Examiner Name	Unassigned
Attorney Docket Number	Viro-0005

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		David McKinnon et al., "The Conversions of Izothiazolium Salts into Thiophenecarboxylic Ester Derivatives", <u>Can. J. Chem.</u> , 1984, Vol. 62, pp. 1580-1584	
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		Bo Sung Kim et al., "Reactions of Thiarylketene S,N-Acetals with 1,3-Dicarbonyl Compounds in the Presence of Mercury (II) Acetate: A General Route to 2-Acyl- and 2-Aroyl-3-(alkylamino)-5-arylthiophenes and 2-(Ethoxycarbonyl)-3-(methylamino)-5-arylthiophenes", <u>J. Org. Chem.</u> , 1998, Vol. 63, pp. 6086-6087	
		Bo Sung et al., "A Facile and Convenient Synthesis of 3-Alkylamino-5-arylthiophenes with a Variety of Substituents at C-2 and Studies of Reaction Mechanisms", <u>J. Org. Chem.</u> , 2000, Vol. 65, pp. 3690-3699	
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		J. R. Desai et al.; J. IND. CHEM. SOC., Vol. 74, 1997, p. 160, "Thieno[3,2-d]pyrimidines - Part-I: Preparation and Antimicrobial Activity of 3-N-Substituted-thioureido-2-methyl-6-phenylthieno[3,2-d]pyrimidin-4(3H)-ones", ISR ref. XP002220249.	
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		R.A. Smith et al., Bioorg. Med. Chem. Lett. Vol. 11, No. 20, 2001, p. 2775-2778; "Discovery of Heterocyclic Ureas as a New Class of Raf Kinase Inhibitors: Identification of a Second Generation Lead by a Combinatorial Chemistry Approach", ISR ref. XP001118699.	

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OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		B.S. Kim et al., J. Org. Chem. Vol. 63, No. 18, 1998, p. 6086-6087, "Reactions of Thioaroylketene S,N-Acetals with 1,3-Dicarbonyl Compounds in the Presence of Mercury(II) Acetate: A General Route to 2-Acyl- and 2-Aroyl-3-(alkylamino)-5-arylthiophenes and 2-(Etoxycarbonyl)-3-(methylamino)-5-arylthiophenes"; ISR ref. XP001118697.	
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		J.C. Lancelot et al., J. Heterocycl. Chem. Vol. 33, No. 2, 1996, p. 427-430; "A Facile Synthesis of New Beta-Lactams", ISR ref. XP002220247.	
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		J.R. Desai et al., J. Inst. Chemists (INDIA) Vol. 67, 1995, p. 136-137, "Thieno[3,2-d]pyrimidines - Part - II: Preparation and Antimicrobial Activity of 2-methyl-3-N-Arylsulphonamido-6-Phenylthieno[3,2-d]Pyrimidin-4(3H)-ones", ISR ref. XP002220249.	
		Co-pending Serial Application No. 10/166,031, filed June 11, 2002	
		Co-pending Serial Application No. 11/042,442, filed January 26, 2005	

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